THESE BATTERY CHARGERS
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TELLUROMETER
Registered Trademark

THESE BATTERY CHARGERS
****

ARE SET FOR 115 VOLT
****

OPERATION
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TELLUROMETER®

MRA 7

BATTERY CHARGER

OPERATING INSTRUCTIONS

ISSUE 1

TELLUROMETER MRA7

BATTERY CHARGER

OPERATING INSTRUCTIONS

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NOTES TO READERS

WARNING

LETHAL VOLTAGES ARE PRESENT WITHIN CHARGER CASE. DISCONNECT CHARGER FROM MAINS POWER BEFORE OPENING CASE.

CAUTION

DO NOT CONNECT BATTERY CHARGER TO MAINS BEFORE ENSURING THAT CORRECT LINE VOLTAGE IS SELECTED ON CHARGER.

MAINS SUPPLY WIRING

THE WIRES IN THE MAINS SUPPLY LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE:-

GREEN/YELLOW:	EARTH
BLUE:	NEUTRAL
BROWN:	LIVE

THE WIRE WHICH IS COLOURED GREEN AND YELLOW MUST BE CONNECTED TO THE TERMINAL WHICH IS MARKED WITH THE LETTER 'E' OR BY THE EARTH SYMBOL ⏚ OR COLOURED GREEN AND YELLOW OR GREEN.

THE WIRE WHICH IS COLOURED BLUE MUST BE CONNECTED TO THE TERMINAL WHICH IS MARKED WITH THE LETTER 'N' OR COLOURED BLUE OR BLACK.

THE WIRE WHICH IS COLOURED BROWN MUST BE CONNECTED TO THE TERMINAL WHICH IS MARKED WITH THE LETTER 'L' OR COLOURED BROWN OR RED.

TELLUROMETER MRA7

BATTERY CHARGER

OPERATING INSTRUCTIONS

INTRODUCTION:

1. The battery charger is capable of charging two MRA7 batteries independantly. The battery charger is mains powered (230V or 115V ± 10% 50/60 Hz) and has a red POWER led, two green CHARGING leds and two separate charging circuits.

INITIAL SET-UP PROCEDURE:

WARNING: LETHAL VOLTAGES ARE PRESENT WITHIN CHARGER CASE. DISCONNECT CHARGER FROM MAINS POWER BEFORE OPENING CASE.

CAUTION: DO NOT CONNECT BATTERY CHARGER TO MAINS BEFORE ENSURING THAT CORRECT LINE VOLTAGE IS SELECTED ON CHARGER.

2. On receipt of charger check that mains voltage selection switch is correctly set for the local mains voltage by unscrewing and removing the four screws holding the lid in place. Check that the setting is correct for the local mains voltage.

3. Check that correct fuse is fitted. A 0.5A fuse should be fitted for 230V and a 1A fuse should be fitted for 115V.

4. Plug in to mains supply. Red POWER led should glow.

OPERATING PROCEDURE:

CAUTION: DO NOT CONTINUE CHARGING BATTERY IF BATTERY CASE BECOMES TOO HOT TO TOUCH. RETURN TO MANUFACTURER.

5. Charge batteries as follows:-

   (1) Plug connector into battery.

   (2) Green CHARGING led of relevant circuit should glow. Unused charger led should not glow.

5. Charge batteries as follows - cont'd:-

(3) Charge batteries for 12 to 14 hours. Do not exceed 24 hours continuous.

(4) Disconnect mains supply when charging is complete.

NOTES:

1. The batteries need not be disconnected when charger is off as the battery will not discharge through the charger.

2. Fully charged batteries may cause green leds to glow dully.

6. The charger incorporates thermal shut-down. If fully discharged batteries are charged the green led will be seen to switch-off then on. This will occur a number of times until the battery is slightly charged. The flashing will then cease. If the flashing of the green led does not stop return the battery to the manufacturer.

TELLUMAT

The 'Tellumat' Electronic System of Distance Measurement

Guarantee

The 'TELLUMAT' Electronic Distance Measuring Equipment described herein is guaranteed to be manufactured of sound materials and to standards of good workmanship.

In pursuance of the above guarantee, the manufacturers will, at their option, either repair or replace without charge, at any of their appointed maintenance establishments, any part of the said instrument (other than those components expressly covered by their own manufacturer's warranty), which becomes defective in proper use and due to fair wear and tear within a period of twelve months from the date of sale of the said instrument, provided that the distributor/agent is promptly notified in writing of such defect occurring and the instrument concerned is promptly returned, carriage paid, to the manufacturers or their agents.

The manufacturer shall have no liability under any warranty, express or implied, for any consequential loss or damage occurring as a result of the acquisition or usage of the said instrument.

"TELLUMAT" Model MRA7s Serial No. 2189

Name of Purchaser Naval Oceanographic Office

Address Bay St. Louis NSTL, MS 39522-5001

Date of Sale 11-6-1987

Signature of Distributor/Agent

Address of Distributor/Agent Navigation Electronics, Inc.
115 Delta Rd. Lafayette, LA 70506

F.141/7240

Certificate of Test

This is to certify that Instrument Model MRA7s Serial No. 2189 has been inspected and tested according to the standards laid down for this model instrument. The undersigned are satisfied that the quality and performance of this instrument meet these requirements.

Signed ..... Production Superintendent

Signed ..... Quality Assurance

Date 19th October 1987

TELLUMAT

Tellumat Ltd, Chessington, Surrey, England.

Tellumat is a Registered Trade Mark

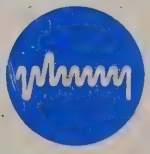
F.141 7241

SERVICE RECORD

TELLUROMETER®
MRA 7

TELLUMAT®

a member of the PLESSEY GROUP



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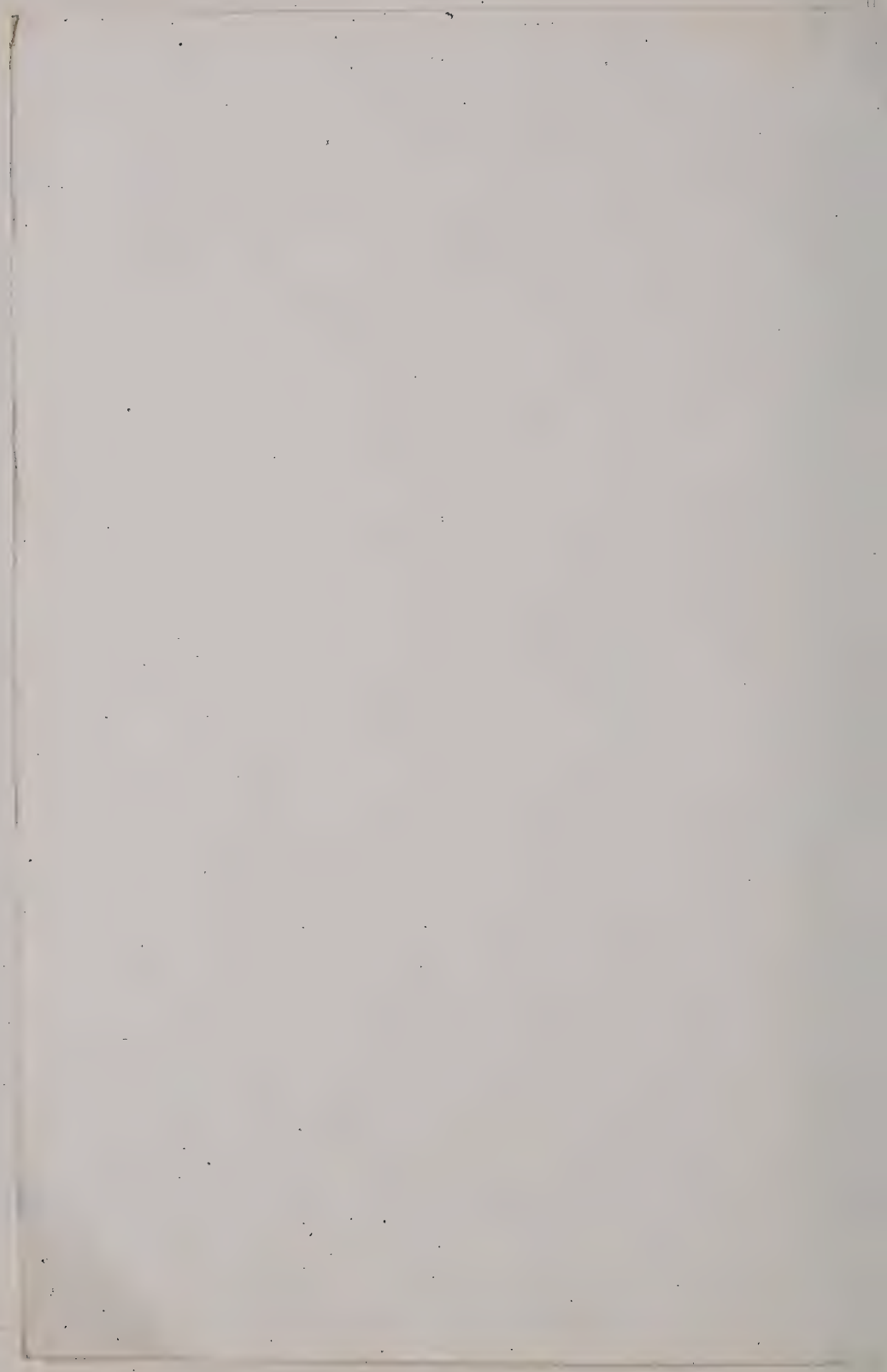

TELLUROMETER®

SYSTEM OF

DISTANCE MEASUREMENT

SERVICE RECORD

This Service Record refers to instrument

No. ....., Model.....
and should at all times be kept with the instrument.

In your own interests, a record of all work carried out should be recorded on the following pages.

DATE	PLACE	BY WHOM DONE	SIGNATURE

BRIEF DESCRIPTION OF WORK DONE

DATE	PLACE	BY WHOM DONE	SIGNATURE

BRIEF DESCRIPTION OF WORK DONE

DATE	PLACE	BY WHOM DONE	SIGNATURE

BRIEF DESCRIPTION OF WORK DONE

DATE	PLACE	BY WHOM DONE	SIGNATURE

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DATE	PLACE	BY WHOM DONE	SIGNATURE

BRIEF DESCRIPTION OF WORK DONE

DATE	PLACE	BY WHOM DONE	SIGNATURE

BRIEF DESCRIPTION OF WORK DONE

Solid State Source Serial No.

Date

Gunn Voltage V. ± 10mV.

Solid State Source Serial No.

Date

Gunn Voltage V. ± 10mV.

Solid State Source Serial No.

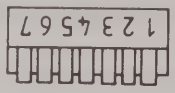
Date

Gunn Voltage V. ± 10mV.

ZERO CORRECTION

On leaving the factory, the zero correction was

The internal switches on Board 1 were set as follows:



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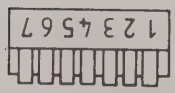
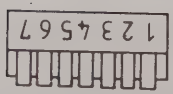


Set by .....

RECALIBRATED AS:



Set by .....

F.14/1882